



UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER

PROGRAM

BACHELOR OF SCIENCE IN AGRONOMY YEAR 1

COURSE CODE: CPR101

TITLE OF PAPER: INTRODUCTORY TO AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS

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CHIEF INVIGILATOR

Question 1 (25 Marks)

Copy the table below onto your answer sheet and complete it by filling in the blank space

Larval type	Common name (1 Mark)	Description (3 Marks)	Example (1 Mark)
Eruciform			
Campodiform			
Scarabaeiform			
Elateriform			
Vermiform			

Question 2 (25 Marks)

- a) Name the appendages in an adult flying insect's body segments indicated below (10 Marks)
- i. Segment 2
 - ii. Segment 4
 - iii. Segment 7
 - iv. Segment 9
 - v. Segment 20
- b) Describe the function of the appendage you named in Q 5 (a) above (15 Marks)

Question 3 (25 Marks)

- a) What is Insect Ecology? (5 Marks)
- b) Describe the meanings of the following terms and phrases: (20 Marks)
- i. Ecological niche
 - ii. A feeding guild
 - iii. Phytophagous
 - iv. Crypsis
 - v. Mimicry
 - vi. Primary ecological events
 - vii. Density dependent factors
 - viii. Food web
 - ix. Trophic level
 - x. Oligophagus

Question 4 (25 Marks)

Discuss the differences and similarities between the following by using insects belonging to each as an example

- a) Apterygota and Pterygota (5 Marks)
- b) Exopterygota and Endopterygota (5 Marks)
- c) Paleopteran and Neopteran (5 Marks)
- d) Orthopteroid and Hemipteroid (5 Marks)
- e) Orthoptera and Isoptera (5 Marks)

Question 5 (25 Marks)

- a) Describe the following and explain their role in insect survival (9 Marks)
 - i. Pheromones
 - ii. Allemones
 - iii. Kiaromone
- b) Name six types of pheromones produced by insects (6 Marks)
- c) Discuss the function of any five of the pheromones you mentioned in Q5 (a) above (10 Marks)